



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TECH CENTER 1600/2900

In re Application of:

Franklin H. Portugal

Examiner: J. Souaya

Serial No.: 09/027,439

Group Art Unit: 1634

Filed: February 20, 1998

Title: COMPOSITIONS AND METHODS FOR DIFFERENTIATING AMONG  
SHIGELLA SPECIES AND SHIGELLA FROM E. COLI SPECIES

**RESPONSE UNDER 37 CFR §1.111**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action dated November 21, 2002, please amend the above identified application as indicated below and consider the remarks which follow.

**IN THE CLAIMS**

Please amend claims 47, 48 and 52 as follows.

47. (TWICE AMENDED) An isolated nucleic acid molecule comprising SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, or SEQ ID NO: 6,  
or an RNA equivalent thereof,  
or a nucleic acid complementary to said isolated molecule, capable of base-pairing according to the standard Watson-Crick complementarity rules,  
or a nucleic acid substantially complementary to said isolated molecule which is capable of hybridizing to the nucleic acid molecule under the following stringent conditions:  
hybridization at 40°-65 °C for 14-16 hours in a hybridization solution at pH 7.8,